

1968

43rd Report of CCA

University of Rhode Island Faculty Senate

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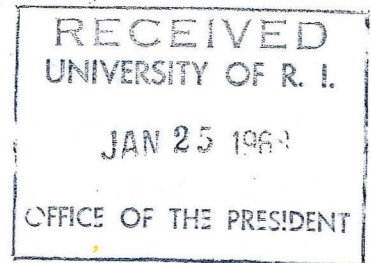
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FACULTY SENATE

BILL

Adopted by the Faculty Senate



TO: President Francis H. Horn

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled 43rd Report of CCA -- Approve all course changes except items A, 2 (page 2); Non-thesis Program for M.A. in Econ.; delete Radio-TV sequence in undergraduate major in Journalism; change in requirements for, B.S. in Mathematics. is forwarded for your consideration.
2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on January 18, 1968 (date).
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Trustees, completing the appropriate endorsement below.
5. In accordance with Section 3, paragraph 2 of the Senate's By-Laws, this bill will become effective on February 8, 1968 (date), three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Trustees for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Trustees, it will not become effective until approved by the Board.

January 24, 1968

(date)

John J. Kupa /s/
Chairman of the Faculty Senate

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.
2. Approved ✓ Disapproved _____.
3. (If approved) In my opinion, transmittal to the Board of Trustees is not necessary.

2/2/68
(date)

Francis H. Horn /s/
President

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.

2. Approved.

(date)

President

/s/

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Trustees, via the University President.

1. Forwarded.

(date)

(Office)

/s/

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Trustees.

(date)

President

/s/

**Original received and forwarded to the Secretary of the Senate and Registrar
for filing in the Archives of the University.**

(date)

Chairman of the Faculty Senate

/s/

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

Faculty Senate Committee on Curricular Affairs, Forty-third Report

At its regular meeting on January 4, 1968, the Faculty Senate Committee on Curricular Affairs considered the following matters, which are now submitted to the Faculty Senate for information or consideration.

I. MATTERS OF INFORMATION (all from the College of Arts and Sciences):

- Biochemistry 11, Biochemistry Laboratory (Course description change to: "The basic chemical and physical properties of carbohydrates, lipids, and proteins; introduction to enzymology. (lab. 3) Prereq: Biochem. 10.")
- 302, Enzymes (Course description change to: "Factors affecting the rate of catalysis in enzymic reactions. The thermodynamic and kinetic characteristics of enzymic reactions. Laboratory experience in enzyme profiles. (Lec. 1 1/2, lab. 8) Prereq: Biochem. 180, 181 and/or permission of department. In alternate years, next offered 1969-70.")
- Botany 142 Plant Physiology, to be offered Semesters I and II
- English 177, 178, English Literature: 1832-1900 (new title; also, change "and Shaw" at the end of the description of English 178 to "and others.")
- Political Science 167, American Jurisprudence (prerequisite change to: "Constitutional Law or permission of instructor.")
- Sociology 148, Population Problems (Change description to: "Problems in the growth, decline, and composition of populations. Effects of fertility, mortality, migration, etc. Special attention to American society. (lec. 3) Prereq: Soc. 1 or 6.")
- Spanish 121, The Modern Spanish Novel (time change to: "In alternate years, next offered Fall, 1969")
- Zoology 21, Human Anatomy (delete the words "Not open to students majoring in Zoology or preparing for medicine," and add the words: "Limited to students in Physical Education, Dental Hygiene, and Nursing.")
- Zoology 168, Mammalogy (Add prerequisite: Zool. 166)

II. MATTERS REQUIRING CONFIRMATION OF THE FACULTY SENATE

(All items, except those starred, contingent upon approval by the Graduate Council at its meeting January 12, 1968.)

A. From the COLLEGE OF ARTS AND SCIENCES

1. Department of Bacteriology and Biophysics

Add (new):

Biophysics 223, 224, Special Topics in Biophysics Semester I & II
1-6 credits each

Advanced work arranged to suit the individual needs of the student.
Lecture and/or laboratory according to the nature of the problem.
Credits not to exceed a total of 12.

2. Department of Biochemistry

Add (new):

Biochemistry 231, Seminar in Biochemistry Semester II, 1 credit
Presentation of a seminar on selected topics in contemporary bio-
chemistry. (Lec. 1) Prerequisite: Permission of the Department.

Biochemistry 303, The Mitochondrion Semester II, 3 credits
A detailed study of the structure, properties and function of the
mitochondrion. (Lec. 3) Prerequisite: Biochemistry 180, 181 and/or
permission of the Department. In alternate years, next offered
1967-68.

3. Department of Computer Science and Experimental Statistics

a. Delete: C. S. 100, Introduction to Digital Computers
Semesters I & II, 3 credits

b. Add (new):

CS 110, Introduction to Computer Science and Algorithmic Processes
Semesters I & II, 3 credits
Concepts and properties of algorithms, language and notations for
describing algorithms, analysis of computational problems and the
development of algorithms for their solution, application of a
specific procedure oriented language to solve simple numerical and
non-numerical problems using a computer. (Lec. 3)
Prerequisite: 6 credits hours of mathematics.

CS 111, Computer Organization, Programming and Information Structures
Semester I, 3 credits
Logical structure of computer systems, flow of control, instruction
codes, arithmetic and logical operations, input-output, subroutines
linkages, interpretive and assembly systems, macros, pushdown
stacks, information representation and their relation to processing
techniques. (Lec. 3) Prerequisite: CS 110.

CS 112, Programming Systems Semester II, 3 credits
Structure of monitor and executive systems, time sharing systems, input-output systems, data structures and manipulations, command languages, program inter-communication, program library structures, design of assembly systems. (Lec. 3) Prerequisite: CS 111.

CS 202, Theory of Algorithmic Languages and Compilers Semester II, 3 credits
Formal description of procedure-oriented languages and the techniques used in translating algorithms written in these languages into computer programs. (Lec. 3) Prerequisite: CS 111.

CS 291, 292, Problems in Computer Science Semester I & II, 1 to 3 credits each
Advanced work in computer science. Courses will be conducted as seminars or as supervised individual projects. (Lec. or Lab. arranged.)

4. Department of Economics

Approve a non-thesis option as an alternative plan in the program for the Master of Arts degree with a major concentration in Economics.

This program will be consistent with the general requirements of the Graduate School as specified in the Graduate Student Manual, 1967, with the exception that 36-credit hours of work shall be required instead of the 30-hours specified in the Manual.

The core of this program is equivalent to the core of the existing thesis program. The non-thesis students (mostly those with language problems and those wishing a "professional" rather than an "academic" training) will all be required to enroll in 6 credit hours of research. The additional 12 hours required of non-thesis students will allow them to pursue in more depth specialized areas of study such as industrial organization, economic history and quantitative economics, thereby extending the interdisciplinary nature of their study.

5. Department of English

- a. Delete: English 273, The Aesthetic Movement Semester I, 3 credits
English 301-306, Seminars in English and American Literature Semester I or II, 3 credits
English 399, Special Problems Semester I or II, 3 credits

b. Add (new):

English 179, Modern British Literature Semester II, 3 credits
The poetry, drama, non-fiction prose, and selected fiction of the modern period. Emphasis on the work of Conrad, Joyce, Lawrence, Woolf, Yeats, Auden, Thomas, and others. (Lec. 3) Prerequisite: junior or senior standing.

English 281, Anglo-Irish Writers Semester II, 3 credits
The Celtic Renaissance as a literary movement, its importance and influence. AE, Lady Gregory, Joyce, O'Casey, O'Flaherty, Stephens, Synge, Yeats, and others. (Lec 3) Prerequisite: permission of the Department. In alternate years, next offered 1968-69.

English 311, Literary Research Methods Semester I or II, 3 credits
Problems and applications of the methods of literary research. Directed use of the research library. (Lec. 3)

Seminars in English and American Literature. Lectures, discussions, extensive readings, individual research and a substantial research paper. (Lec. 3) Prerequisite: permission of the Department.

Semester I or II, 3 credits
each

English 324, 325, Seminar in English Literature of the Middle Ages.
Topic, Semester II, 1967-68: The Arthurian Theme in Middle English Literature.

331, 332, Seminar in English Literature of the Sixteenth Century,
Drama will be included to 1642. Topic, Semester II, 1967-68: Plays of Ben Jonson. SMITH Topic, Semester II, 1968-69: Tudor Poetry.

341, 342, Seminar in English Literature of the Seventeenth Century.
Topic, Semester I, 1967-68: John Dryden.

351, 352, Seminar in English Literature of the Eighteenth Century.
Topic, Semester II, 1968-69: Robert Burns.

361, 362, Seminar in English Literature of the Nineteenth Century.
Topic, Semester I, 1967-68: Impact of Carlyle on Victorian Writers.

371, 372, Seminar in American Literature before 1900. Topic,
Semester II, 1967-68: The Civil War in Literature.
Topic, Semester I, 1968-69: Stephen Crane.
Topic, Semester II, 1968-69: Hawthorne.

381, 382, Seminar in Modern Literature (English and American)
Topic, Semester I, 1967-68: Thomas Hardy.
Topic, Semester I, 1968-69: Ford Madox Ford and Joseph Conrad.

English 391, 392, Special Problems Semester I or II, 3 credits
each

Advanced study of an approved topic, under the supervision of a member of the staff. (Lec. 3) Prerequisite: permission of the Department.

6. Department of Geography

a. Renumber and change time distribution to read:

*Geography 21(2), Cultural Geography . . . (Lec. 3)

b. Add (new):

Geography 163, Geography of World Resources Semester II, 3 credits
Distribution, development, and rational utilization of the world's
biological, mineral and energy resources, including the resources of
the sea and sea bottom. (Lec. 3) Prerequisite: Geography 3 or
permission of the Department.

7. Department of Geology

Add (new):

Geology 210, Coastal Geomorphology Semester II, 3 credits
Principles of coastal development and interpretation in relation
to endogenetic and exogenetic shore processes including beach
formation and erosion. Former beaches on both emerged coastal plains
and submerged continental shelves will be related to experimental
model studies and applied field studies. (Lec. 2, Lab. 3) Pre-
requisite: Geology 130 and 150 or permission of the Department.
In alternate years, next offered 1968-69.

8. Department of Journalism

Delete: * The Radio-TV Sequence in the undergraduate major in
Journalism.

9. Department of Mathematics

*Change the requirements for the Bachelor of Science degree program
in Mathematics, to read:

MAJOR IN MATHEMATICS. This curriculum is designed to include the basic theories,
techniques, and applications of mathematics. The required courses introduce the
student to the principal areas of mathematics, and they provide a foundation for
advanced study at the graduate level. This curriculum prepares students for
graduate study in mathematics, and also for industrial employment.

The student must acquire at least 39 credits in mathematics exclusive of
Mathematics 7, 8 and 9. The program usually includes Mathematics 41, 42 and 43;
however, students who have had a substantial introduction to calculus should
consult with the department chairman to determine whether they are ready to
begin study at a higher level than Mathematics 41. In addition, the program
must include Mathematics 114, 115, 125, 135, 136, 151 and 162. The department
recommends that student also take Mathematics 53, 142 and 145.

The student must complete a minor concentration of 18 or more credits in
one of these three areas: biological science, physical science, or the social
sciences.

The program must include Physics 3, 5 and 4, 6.

FRESHMAN YEAR

First Semester		Second Semester	
Math. 41 - Introductory Calculus with Analytic Geometry	3	Math. 42. - Intermediate Calculus with Analytic Geometry	3
Engl. 1 - Composition	3	Engl. 2 - Literature and Composition	3
Modern Language	3	Modern Language	3
Biological Science	3-4	Biological Science	3-4
Hist. 3 - Western Civilization to 1715	3	Hist. 4 - Western Civilization since 1715	3
Elective (optional)	0-3	Elective (optional)	0-3
Phys. Ed. 1M or 1W - Physical Education	1	Phys. Ed. 2M or 2W - Physical Education	1
	<u>16-20</u>		<u>16-20</u>

SOPHMORE YEAR

First Semester		Second Semester	
Math. 43 - Calculus and Analytic Geometry of Several Variables	3	Mathematics Requirements or Electives	3-6
Phys. 3 and 5 - Elementary Physics	4	Phys. 4 and 6 - Elementary Physics	4
Social Science	3	Social Science	3
General Requirement	3	General Requirements	6-3
Elective	3	Elective	3
Phys. Ed. 3M or 3W - Physical Education	1	Phys. Ed. 4M or 4W-Physical Education	1
	<u>17</u>		<u>17</u>

JUNIOR AND SENIOR YEARS

General Requirements	3-9	Science Electives	10-12
Mathematics Requirements and Electives	24-27	Free Electives	18-26

Total credits required: 132

10. Department of Political Science

a. Renumber to:

Pol. Sci. 101(71), European Comparative Government

Semester I & II, 3 credits

b. Add (new):

Pol. Sci. 102, Government and Politics in the Middle East

Semester I, 3 credits

Analysis of formal social structures in terms of functions performed or created in transitional situations, in relation to economic viability and political stability, political leadership and political integration, socio-emotional and instrumental structures, and nationalism and communism. (Lec. 3) Prerequisite: Pol. Sci. 13 or 16.

Pol. Sci. 104, Government and Politics of South East Asia

Semester I, 3 credits

Analysis of formal social structures in terms of functions performed in transitional milieux, in relation to economic viability and political stability, political leadership and political integration, socio-emotional and instrumental structures, and nationalism and communism. (Lec. 3) Prerequisite: Pol. Sci. 13 or 16.

Pol. Sci. 160, Urban Politics

Semester I, 3 credits

Urban problems and policy-making, urban ecology, political behavior, and strategies of leadership in relation to the "crisis" of the cities and the rise of megalopolis. Governmental structures and financing, poverty and physical deterioration, racial discrimination and crime, education and transportation. (Lec. 3) Prerequisite: Pol. Sci. 13 or 16.

Pol. Sci. 161, The American Presidency

Semester II, 3 credits

An analysis of presidential leadership and decision-making, with emphasis on the growth in power and prestige of the presidency, the exercise of presidential influence in the conduct of government during crisis and non-crisis periods, and executive initiative in the formulation and development of national policies and priorities. (Lec. 3) Prerequisite: Pol. Sci. 13 or 16.

Pol. Sci. 184, The Middle East in World Affairs

Semester II, 3 credits

An analysis of the events of June 1967, taken as symptomatic of the relations among Middle Eastern states and between them and the world-at-large, in light of the history of the perceptions which motivated Middle Eastern leaders from 1915 onwards. (Lec. 3) Prerequisite: Pol. Sci. 13 or 16.

B. From the COLLEGE OF BUSINESS ADMINISTRATION

Add (new):

*Finance 41, Fundamentals of Real Estate

Semester I, 3 credits

The nature and importance of real estate; principles of land utilization, urban development, property rights, markets, government regulations. (Lec. 3) Prerequisite: Junior standing.

C. From the COLLEGE OF ENGINEERING

1. Department of Civil Engineering

a. Change credits to: C. E. 147, Highway Engineering 3 credits

b. Renumber and change credits to:

C. E. 176 (76), Hydrology and Hydraulic Engineering 3 credits

c. Add (new):

C. E. 153, Computer Analysis of Structures.

Semester II, 3 credits

Introduction to matrix methods of structural analysis. Solutions of planar structures using a digital computer. (Lec. 3) Pre-

requisites: C. E. 57 and C. E. 196.

C. E. 170 Sanitary Chemistry Semester I, 3 credits
Application of analytical chemistry to analysis of natural waters;
physical chemistry and organic chemistry of aqueous media;
chemical principles applicable to operations of sanitary engineering.
(Lec. 3) Prerequisite: C. E. 176, permission of department.

C. E. 171 Sanitary Chemistry Laboratory Semester II, 3 credits
Applications of chemical laboratory procedures to control of water
and waste water treatment processes. (Lec. 2, Lab. 3)
Prerequisites: C. E. 170.

2. Department of Ocean Engineering

Add (new): *O. E. 353, 354, Ocean Engineering Systems Studies
Semesters I & II, 3 credits
each
Systems engineering study of an advanced ocean engineering problem.
Students will operate as a complete engineering team with specific
subsystems designs done with individual faculty members.
Prerequisite: O. E. 203.

D. From the GRADUATE SCHOOL OF OCEANOGRAPHY

1. Delete: *Ocean 242, Petrography of Marine Sediments
Semester II, 3 credits
*Ocean 390, Oceanographic Equipment and Techniques
Semester II, 3 credits

2. Add (new):

Ocean 210, Descriptive Physical Oceanography Semester II, 3 credits
Observed distributions of temperature, salinity, currents; methods of
deducing deep flow; physical properties of sea water; flow in
estuaries; practical work in the analysis of oceanographic data;
study of recent literature. (Lec. 3) Prerequisite: Ocean 201.

Ocean 213, Waves Semester I, 3 credits
Generation, propagation and decay of surface waves, internal waves,
and Rossby waves in the ocean. (Lec. 3) Prerequisite: M. E. 250
or permission of instructor.